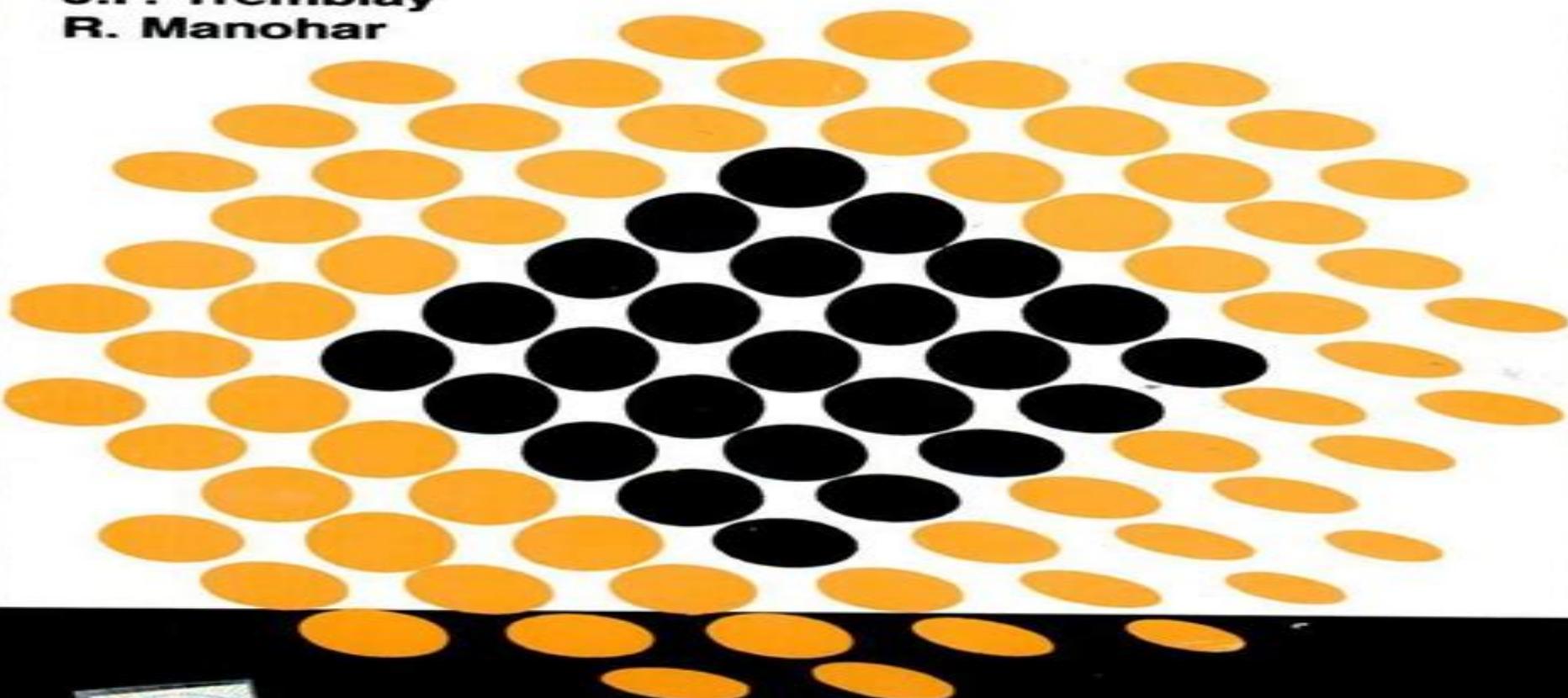


# Discrete Mathematical Structures with Applications to Computer Science

J.P. Tremblay  
R. Manohar



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# Discrete Mathematical Structures For Computer Science

**Mario Benedicty, Frank R. Sledge**



## **Discrete Mathematical Structures For Computer Science:**

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[Mathematical Structures for Computer Science](#) Judith L. Gersting, 2007 This edition offers a pedagogically rich and intuitive introduction to discrete mathematics structures It meets the needs of computer science majors by being both comprehensive and accessible

*Discrete Mathematical Structures with Applications to Computer Science* Jean-Paul Tremblay, R. Manohar, 1987

**Discrete mathematical structures for computer science** Ronald E. Prather, 1976-01-01

[Discrete Mathematical Structures](#) Bernard Kolman, Robert Busby, Sharon C. Ross, 2014-01-14 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book

*Discrete Mathematical Structures Sixth Edition* offers a clear and concise presentation of the fundamental concepts of discrete mathematics Ideal for a one semester introductory course this text contains more genuine computer science applications than any other text in the field This book is written at an appropriate level for a wide variety of majors and non majors and assumes a college algebra course as a prerequisite

**Discrete Mathematical Structures for Computer Science** Bernard Kolman, Robert C. Busby, 1987

[Elements of discrete mathematical structures in computer science](#), 2007

[Discrete Mathematical Structures](#) G. Shanker Rao, 2007-12-31 About the Book This text can be used by the students of mathematics and computer science as an introduction to the fundamentals of discrete mathematics The book is designed in accordance with the syllabi of B E B Tech MCA and M Sc Computer Science prescribed in most of the universities of India Each chapter is supplemented with a number of worked example as well as a number of problems to be solved by the students This would help in a better understanding of the subject

Contents Mathematical Logic Set Theory Relations Functions and Recurrence Relations Boolean Algebra Logic Gates Elementary Combinatorics Graph Theory Algebraic Structures Finite State Machines

**Discrete Mathematical Structures** B. V. Senthil Kumar, Hemen Dutta, 2019-07-08 This book contains fundamental concepts on discrete mathematical structures in an easy to understand style so that the reader can grasp the contents and explanation easily The concepts of discrete mathematical structures have application to computer science engineering and information technology including in coding techniques switching circuits pointers and linked allocation error corrections as well as in data networking Chemistry Biology and many other scientific areas The book is for undergraduate and graduate levels learners and educators associated with various courses and

programmes in Mathematics Computer Science Engineering and Information Technology The book should serve as a text and reference guide to many undergraduate and graduate programmes offered by many institutions including colleges and universities Readers will find solved examples and end of chapter exercises to enhance reader comprehension Features Offers comprehensive coverage of basic ideas of Logic Mathematical Induction Graph Theory Algebraic Structures and Lattices and Boolean Algebra Provides end of chapter solved examples and practice problems Delivers materials on valid arguments and rules of inference with illustrations Focuses on algebraic structures to enable the reader to work with discrete structures Discrete mathematical structures in computer science Margarita Carmen S. Paterno,2003

**Discrete Mathematical Structures** KOLMAN BERNARD,BUSBY ROBERT C,1999 Combining a careful selection of topics with coverage of their genuine applications in computer science this book more than any other in this field is clearly and concisely written presenting the basic ideas of discrete mathematical structures in a manner that is understandable Limiting its scope and depth of topics to those that readers can actually utilize this book covers first the fundamentals then follows with logic counting relations and digraphs functions order relations and structures trees graph theory semigroups and groups languages and finite state machines and groups and coding With its comprehensive appendices and index this book can be an excellent reference work for mathematicians and those in the field of computer science **A Course In Discrete Mathematical Structures** Lekh Rej Vermani,Shalini Vermani,2012-01-13 This book provides a broad introduction to some of the most fascinating and beautiful areas of discrete mathematical structures It starts with a chapter on sets and goes on to provide examples in logic applications of the principle of inclusion and exclusion and finally the pigeonhole principal Computational techniques including the principle of mathematical induction are provided as well as a study on elementary properties of graphs trees and lattices Some basic results on groups rings fields and vector spaces are also given the treatment of which is intentionally simple since such results are fundamental as a foundation for students of discrete mathematics In addition some results on solutions of systems of linear equations are discussed a **Discrete Mathematical Structures for Computer Scientists and Engineers** M. K. Das,2007 Discrete Mathematical Structures provides an introductory mathematical foundation for further advanced study in data structures algorithms compilers and theory of computation *Discrete Mathematical Structures* Mario Benedicty, Frank R. Sledge,1985 **Discrete Mathematical Structures** Bernard Kolman,Robert C. Busby,Sharon Cutler Ross,2000 For one two term freshman sophomore level courses in Discrete Mathematics More than any other book in the field this text ties together discrete topics with a theme Written at an appropriate level of rigor with a strong pedagogical focus it limits depth of coverage and areas covered to topics of genuine use in computer science An emphasis on both basic theory and applications provides students with a firm foundation for more advanced courses *Discrete Mathematical Algorithm, and Data Structures* Sanjib Sinha,2020-05-28 Readers will learn discrete mathematical abstracts as well as its implementation in algorithm and data

structures shown in various programming languages such as C C PHP Java C Python and Dart This book combines two major components of Mathematics and Computer Science under one roof Without the core conceptions and tools derived from discrete mathematics one cannot understand the abstract or the general idea involving algorithm and data structures in Computer Science The objects of data structures are basically objects of discrete mathematics This book tries to bridge the gap between two major components of Mathematics and Computer Science In any computer science course studying discrete mathematics is essential although they are taught separately except in a few cases Yet a comprehensive book combining these two major components is hard to find out not only that it is almost impossible to understand one without the help of other Hope this book will fill the gap Readers will learn discrete mathematical abstracts as well as its implementation in algorithm and data structures shown in various programming language such as C Java C Python and Dart

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Discrete Mathematical Structures Mario Benedicty,1987-04 Mathematics of Computing Discrete Mathematics Discrete Mathematical Structures Uma Shanker Gupta,2014 Discrete Mathematical Structures provides comprehensive reasonably rigorous and simple explanation of the concepts with the help of numerous applications from computer science and engineering Every chapter is equipped with a

good number of solved examples that elucidates the definitions and theorems discussed Chapter end exercises are graded with the easier ones in the beginning and then the complex ones to help students for easy solving     **DISCRETE MATHEMATICAL STRUCTURES** SOMASUNDARAM, R. M.,2003-01-01 This is a comprehensive text book covering various aspects of Discrete Mathematics It suits the needs of the students of B E B Tech M E M Sc Computer Science and MCA  
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